

# MC40-HC Mobile Computer

## COOL STYLING — AND ALL THE FEATURES YOU NEED TO DELIVER THE HIGHEST QUALITY CARE

**Improve patient safety, the patient experience and healthcare staff productivity with the fully-featured pocket-sized MC40-HC.** Your patients chose you as their healthcare provider. In order to keep that patient, you need to deliver the very best in care. And delivering the best care possible requires healthcare staff to have right-now access to whatever information is required to not only take instant action — but to take the right action.

The MC40-HC gives your healthcare staff everything needed to make the right decision in a split second, all in a device that rivals the design of today's coolest mobile devices, including smartphones. Your healthcare staff will instantly feel comfortable with the all-touch MC40-HC. With the familiar Android™ operating system, healthcare staff already know how to interact with the device, virtually eliminating training. It is just a little bigger than a smartphone, but still easily fits in a pocket, where it is always handy. But the similarities to consumer-style devices end there. Our Mobility Extensions (Mx) infuse Android with the enterprise-class features required in the critical environment of healthcare — robust Wi-Fi connections that keep staff connected via voice and to real-time data; security features that protect data and help meet HIPAA requirements and complete remote control over devices as well as their applications. And with enterprise-class data capture, nurses and lab technicians can count on easy first time every time scanning of any bar code, ensuring accuracy in medication administration and specimen collection — where errors can have extreme consequences.



### **Disinfectant-ready with enterprise-class durability**

You get the durability that Zebra Technologies is famous for — the MC40-HC simply works, despite drops, bumps, spills and constant sanitizing. And Gorilla Glass improves the durability of three of the most vulnerable features — the display and the scanner and camera exit windows.

### **Advanced scanning technology**

Nurses and clinical staff can count on dependable scanning of any 1D or 2D bar code displayed on a computer screen or printed on paper — even if the codes are dirty, poorly printed or damaged. Omni-directional scanning delivers point-and-shoot simplicity — there is never a need to align the device and bar code. And the extra wide best-in-class working range and field of view make bar code capture easier than ever.

### **A large 4.3 inch touch display**

Provides the screen real-estate to support information-intensive apps, such as electronic health records and real-time feeds of patient vital signs.

### **Android fortified for the enterprise**

Mx adds new features that transform Android from a consumer operating system (OS) to a true enterprise-class operating system, adding the

enterprise-class security, manageability, wireless connection quality and data capture feature support your organization requires.

### **A powerful voice connection to nearly any other mobile device in the hospital**

With our unique integrated voice solutions, the MC40-HC is push-to-talk (PTT) ready right out of the box, easily connecting to other PTT-enabled Zebra mobile computers, two-way radios and third party popular smartphones.<sup>1</sup> And Workforce Connect Voice turns any MC40-HC into a mobile deskphone with robust PBX functionality.

### **User replaceable battery for guaranteed availability all shift, every shift**

An average of up to 8 to 10 hours of operation on a single charge virtually eliminates downtime due to a dead battery during a shift; user-swappable batteries protect device uptime and increase device utilization for a stronger return on investment.

### **Rich photographic intelligence**

The high-resolution 8 MP camera enables the capture of photos that document patient condition, plus documents that are highly legible, all with the quick press of a button.

**THE MC40-HC — THE NEW FACE OF HEALTHCARE MOBILITY.**

FOR MORE INFORMATION, VISIT [WWW.ZEBRA.COM/MC40HC](http://WWW.ZEBRA.COM/MC40HC) OR ACCESS OUR GLOBAL CONTACT DIRECTORY AT [WWW.ZEBRA.COM/CONTACT](http://WWW.ZEBRA.COM/CONTACT)

# MC40-HC Specifications Chart

PHYSICAL CHARACTERISTICS	
Dimensions	5.66 in. H x 2.87 in. W x 0.79 in. D 143.91 mm H x 72.8 mm W x 20.1 mm D
Weight	9.38 oz./266.1 g (with battery)
Display	4.3 in. capacitive; 480 x 800; 300 NIT Corning Gorilla Glass 3
Touchpanel	Capacitive dual-touch
Backlight	LED backlight
Power	 PowerPrecision 2680 mAh Li-Ion rechargeable battery
Backup Battery <sup>2</sup>	NiMH battery (rechargeable) 15 mAh 3.6 V (not user accessible)
Connectivity	USB 2.0 OTG connector
Notification	LED, audio and vibration
Keypad	On-screen keypad
Disinfectant Ready	Yes
PERFORMANCE CHARACTERISTICS	
CPU	800MHz OMAP 4 dual-core processor <sup>3</sup>
Operating System	Android 4.4.2 (KitKat) Android 4.1.1 (Jelly Bean)  <b>Mobility Extensions (Mx)</b> adds a layer of features that turns Android into a true enterprise-class OS.
Memory	1 GB RAM/8 GB Flash
USER ENVIRONMENT	
Operating Temp.	0° C to 40° C / 32° F to 104° F
Storage Temp.	-40° C to 70° C / -40° F to 158° F
Humidity	5% to 85% RH non-condensing
Drop Specification	Multiple 4 ft./1.2 m drops per MIL-STD 810G; Multiple 3 ft./0.9 m drops to tile
Tumble Specification	500 1.6 ft/0.5 m tumbles; meets and exceeds IEC tumble specifications
Sealing	IP54
ESD	± 15kVdc air discharge, ± 8kVdc direct discharge, ± 2kVdc indirect discharge
Corning Gorilla Glass 3	Touchpanel; scanner exit window and camera exit window
INTERACTIVE SENSOR TECHNOLOGY (IST)	
Motion Sensor	3-axis accelerometer provides motion-sensing for dynamic screen orientation and power management
Light Sensor	Automatically adjusts display backlight brightness
Proximity Sensor	Prevents unwanted keypresses in handset mode
AUDIO	
High-quality speakerphone, wireless (Bluetooth) headset support, PTT headset support, handset/speakerphone modes	

DATA CAPTURE	
Imager	SE4710
Camera	Rear-facing 8 MP auto-focus with aiming for bar code scanning and image capture.
Data Types	1D/2D bar codes, photographs, video, signatures, documents

**COMMUNICATION AND MESSAGING**

 **Workforce Connect PTT Express Client** included for instant PTT calling right out of the box.<sup>1</sup> **Workforce Connect Voice Client** Certified to enable PBX handset functionality and more inside the four walls. Supports **Workforce Connect PTT Pro** for more robust PTT functionality and **Workforce Connect Messaging** for text messaging over Wi-Fi and cellular networks.

WIRELESS LAN	
Radio	Tri-mode IEEE® 802.11a/b/g/n/d/h/i/k/r
Security	<i>Security Modes:</i> Legacy, WPA and WPA2 <i>Encryption:</i> WEP (40 and 128 bit), TKIP and AES <i>Authentication:</i> TLS, TTLS (MS-CHAP), TTLS (MS-CHAP v2), TTLS (PAP), PEAP (MS-CHAP v2), PEAP (GTC), FAST (MS-CHAP v2), FAST (GTC), LEAP. <i>Data in motion:</i> FIPS 140-2 Level 1 <i>Data at Rest:</i> FIPS 140-2 Level 1
Data Rates	802.11b: 1, 2, 5.5, 11 Mbps; 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps; 802.11n: 6.5, 13, 19.5, 26, 39, 52, 58.5, 65 Mbps 802.11n with SGI: 7.2, 14.4, 21.7, 28.9, 43.3, 57.8, 65, 72.2 Mbps
Fast Roam	Pre-Authentication, PMKID Caching, Opportunistic Key Caching (OKC), Cisco CCKM, Zebra HFSR, 802.11r
Certifications	Wi-Fi, CCxv4
Operating Channels	Chan 36-165 (5180 – 5825 MHz), Chan 1-13 (2412 - 2472 MHz); actual operating channels/frequencies depend on regulatory rules and certification agency

**WIRELESS PAN**

Bluetooth Class II, v 2.1 with EDR; integrated antenna  
Bluetooth 4.0 (Bluetooth Smart)

**PERIPHERALS AND ACCESSORIES**

Accessories include single\* and 5-slot\* charging cradles; single\* and 4-slot\* battery chargers; holster and a wearable carrying solution. BT connectivity to RS507 Ring Scanner. Visit [www.zebra.com/mc40](http://www.zebra.com/mc40) for a complete list of accessories.  
\* In patient-friendly color, Healthcare White.

**REGULATORY**

Visit [www.zebra.com/mc40hc](http://www.zebra.com/mc40hc) for regulatory information

**WARRANTY**

Subject to the terms of Zebra's hardware warranty statement, the MC40-HC is warranted against defects in workmanship and materials for a period of 1 (one) year from the date of shipment. For complete warranty statement, please visit: <http://www.zebra.com/warranty>

**RECOMMENDED SERVICES**

Zebra OneCare

**CLEANING INSTRUCTIONS**

**Recommended Cleanser Active Ingredients:**  
100% of the active ingredients in a cleaning solution should consist of one of the following: isopropyl alcohol; bleach/sodium hypochlorite; hydrogen peroxide; mild dish soap.

**Harmful Ingredients:**  
The following chemicals at certain concentrations and/or combinations are known to damage the plastics on the MC40-HC mobile computers and should not come in contact with the device: ammonia solutions, compounds of amines or ammonia; acetone; ketones; ethers; aromatic and chlorinated hydrocarbons; aqueous or alcoholic alkaline solutions; ethanolamine; toluene; trichloroethylene; benzene; carboric acid; TB-lysoform.

**Cleaning Instructions:**  
Do not apply liquid directly to the MC40-HC mobile computers. Dampen a soft cloth or use pre-moistened wipes. Do not wrap the device in the cloth or wipe, but gently wipe the unit. Be careful not to let liquid pool around the display window or other places. Allow the unit to air dry before use.

**Special Cleaning Notes:**  
Many vinyl gloves contain phthalate additives, which are often not recommended for medical use and are known to be harmful to the housing of the MC40-HC mobile computers. The devices should not be handled while wearing vinyl gloves containing phthalates, or before hands are washed to remove contaminant residue after gloves are removed. If products containing any of the harmful ingredients listed above are used prior to handling the MC40-HC mobile computers, such as hand sanitizers that contain ethanolamine, hands must be completely dry before handling the devices to prevent damage to the plastics.

**Approved Cleaning Products:**  
Due to the requirements of many use cases, the following products have been tested and approved for use with the MC40-HC: PDI Super Sani-Wipes, PDI Sani-Cloth Plus, Metrex Caviwipes, and Clorox Dispatch with Bleach. Please note that some of these products have chemicals listed above as harmful, but the levels of concentration and combination with other chemicals for these listed products have shown to not cause an issue. Contact the service desk with any questions regarding approved cleaners and disinfectants for the MC40-HC terminal.

1. Zebra Technologies mobile computers require the complimentary Push-to-Talk Express client from Zebra; third party mobile devices require Zebra's Unified Retail Communications client; two-way radios require Zebra's Radio Link server.
2. Refer to the User Manual for charging recommendation.
3. Maximum processor clock speed running Android KitKat is 1 GHz
4. Voice client supported in North America.

Note: Product photography not representative of the recent change to a gasket-free MC40-HC design.



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